WHAT IS CLAIMED IS:

1	1.	A method of generating a graphics image comprising:
2	storin	g a plurality of texture descriptors in a graphics memory; and
3	retrie	ving the plurality of texture descriptors from the graphics memory for use ir
4	a graphics processor	
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1	2.	The method of claim 1 wherein the plurality of texture descriptors are
2	_	aphics memory and retrieved a plurality of times for use by the graphics
3	processor.	
1	. 3.	The method of claim 2 wherein a base address and index are received by
2	the graphics process	or for each retrieved texture descriptor.
1	4.	The method of claim 3 wherein the base address and the index are
2	provided by software to the graphics processor.	
1	5.	The method of claim 2 wherein an address of a pointer is provided for
2	each of the plurality	of texture descriptors.
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1	6.	The method of claim 5 wherein the address of the pointer is provided by
2	software to the graphics processor.	
1	7.	The method of claim 2 wherein an index to a pointer table is provided for
2		
2	each of the plurality	of texture descriptors.
1	8.	The method of claim 7 wherein the index to the pointer table is provided
2	by software to the gr	aphics processor.
1	9.	The method of claim 2 wherein a pointer is provided for each of the
2 plurality of texture descriptors.		escriptors.
1	10.	The method of claim 9 wherein the pointer is provided by software to the
2	graphics processor.	
-	Stupines processor.	
1	11.	A method of generating a graphics image comprising:

2	storing a plurality of texture descriptors in a graphics memory, and		
3	retrieving the plurality of texture descriptors from the graphics memory for use in		
4	a graphics processor,		
5	wherein the plurality of texture descriptors are stored once in the graphics		
6	memory and retrieved a plurality of times for use by the graphics processor, and		
7	wherein a shader program causes the retrieval of the plurality of texture		
8	descriptors.		
1	12. The method of claim 11 wherein the plurality of the texture descriptors are		
1	simultaneously stored in the graphics processor for use by the shader program.		
2	simultaneously stored in the graphics processor for use by the shader program.		
1	13. The method of claim 11 wherein a base address and index are provided by		
2	the shader program for each of the plurality of texture descriptors.		
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1	14. The method of claim 11 wherein an address of a pointer is provided by the		
2	shader program for each of the plurality of texture descriptors.		
1	15. The method of claim 11 wherein an index to a pointer table is provided by		
2	the shader program for each of the plurality of texture descriptors.		
1	16. The method of claim 11 wherein a pointer is provided by the shader		
2	program for each of the plurality of texture descriptors.		
1	17. The method of claim 11 wherein when at least some of the plurality of		
2	texture descriptors are retrieved from the graphics memory, they are prefetched.		
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1	18. The method of claim 17 wherein before a texture descriptor is prefetched,		
2	the graphics processor receives an indication to prefetch the texture descriptor from the graphics		
3	memory.		
1	19. A method of generating a graphics image comprising:		
2	receiving a first texture descriptor, a first hint, and a first command from a		
3	graphics pipeline, the first command using the first texture descriptor;		
4	retrieving a second texture descriptor identified by the first hint;		
5	retrieving a first portion of a shader program comprising:		

6	a second command using the second texture descriptor; and		
7	a third command using a third texture descriptor; and		
8	retrieving the third texture descriptor.		
1	20. The method of claim 19 further comprising generating a second hint used		
2	for the retrieving of the third texture descriptor.		
1	21. The method of claim 19 wherein the first texture descriptor is stored in a		
2	first register, the second texture descriptor is stored in a second register, and the third descriptor		
3	is stored in a third register.		
1	22. The method of claim 21 further comprising:		
2	retrieving a second portion of the shader program comprising a fourth command		
3	using a fourth texture descriptor; and		
4	retrieving the fourth texture descriptor,		
5	wherein the fourth texture descriptor is stored in the second register.		
1	23. A method of generating a graphics image comprising:		
2	retrieving a portion of a shader program comprising an instruction using a texture		
3	descriptor; and		
4	prefetching the texture descriptor from a graphics memory before the instruction		
5	is executed.		
1	24. The method of claim 23 wherein a base address and index are provided by		
2	the shader program for each of the plurality of texture descriptors.		
1	25. The method of claim 23 wherein an address of a pointer is provided by the		
2	shader program for each of the plurality of texture descriptors.		
1	26. The method of claim 23 wherein an index to a pointer table is provided by		
2	the shader program for each of the plurality of texture descriptors.		
1	27. The method of claim 23 wherein a pointer is provided by the shader		
2	program for each of the plurality of texture descriptors.		

1	28. An integrated circuit comprising:		
2	a shader circuit;		
3	a texture circuit coupled to the shader circuit; and		
4	a frame buffer interface coupled to the texture circuit,		
5	wherein the texture circuit retrieves texture descriptors from a memory.		
1	29. The integrated circuit of claim 28 wherein the texture circuit retrieves		
2	texture descriptors from the external memory using the frame buffer interface.		
1	30. The integrated circuit of claim 29 wherein the shader provides an		
2	instruction for the texture circuit to retrieve the texture descriptors from the graphics memory.		
1	31. A graphics processor comprising:		
2	a shader circuit;		
3	a texture circuit including a texture cache coupled to the shader circuit; and		
4	a frame buffer interface coupled to the texture circuit,		
5	wherein the texture circuit retrieves a plurality of texture descriptors from an		
6	external memory coupled to the frame buffer interface and textures are stored in the texture		
7	cache.		
1	32. The graphics processor of claim 31 wherein a base address and index are		
2	provided by the shader to the texture circuit for each of the plurality of texture descriptors.		
1	33. The method of claim 31 wherein an address of a pointer is provided by the		
2	shader to the texture circuit for each of the plurality of texture descriptors.		
1	34. The method of claim 31 wherein an index to a pointer table is provided by		
2	the shader to the texture circuit for each of the plurality of texture descriptors.		
1	35. The method of claim 31 wherein a pointer is provided by the shader to the		
2	texture circuit for each of the plurality of texture descriptors.		
1	36. An integrated circuit comprising:		
2	a shader circuit;		

3	a texture circuit including a texture cache coupled to the shader circuit; and	
4	a frame buffer interface coupled to the texture circuit,	
5	wherein the shader requests texture descriptors from the frame buffer interface,	
6	and the texture descriptors are stored for use by the texture circuit.	
1	37. The integrated circuit of claim 36 further comprising:	
2	a texture descriptor cache controller coupled between the shader and the frame	
3	buffer interface,	
4	wherein the texture descriptor cache controller receives texture descriptor requests	
5	from the shader.	